Quelle TECHNISCHER KUNDENDIENST

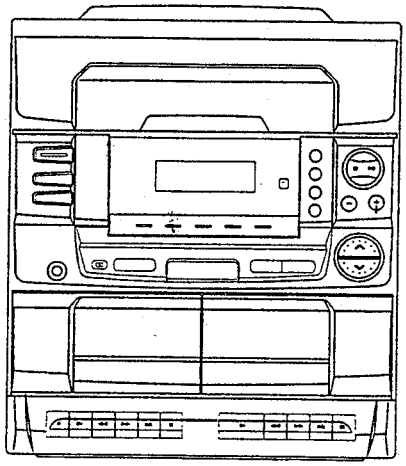
Technische Unterlage

Best.-Nr.: **101.893.6**

ETNr.1330935

VTC-CD 1089

QUEL -08698



UTS-Nr.: 999 UTS
Best.Nr.: 1018936/01
Ger.Bez.: UNIVERSUM-MINI-ANLAGE

GKz: G GERAET
WGT: 650 MICRO-/MINI-ANLAGEN
KD-Sektor: R RUNDFUNK
BaumNr.: 00 KEIN DIAGNOSEBAUM VORHANDEN
Klassierung: STK STEREOKOMBINATION
IFW-FehlerGru.: 205 RDF.,VERST.,TB.,PHONO,CD,CB
Type/Privileg/Universum.Nr VTC-CD1089
Beschreibung
VK-Preis: 399.00

Serviceart: 01 UTS
Garantie fuer Kunden 06 Monate
Sondervereinbarungen: 0 SIEHE SERVICEART

Garantiereparatur 9999999 UTS

SPECIFICATIONS

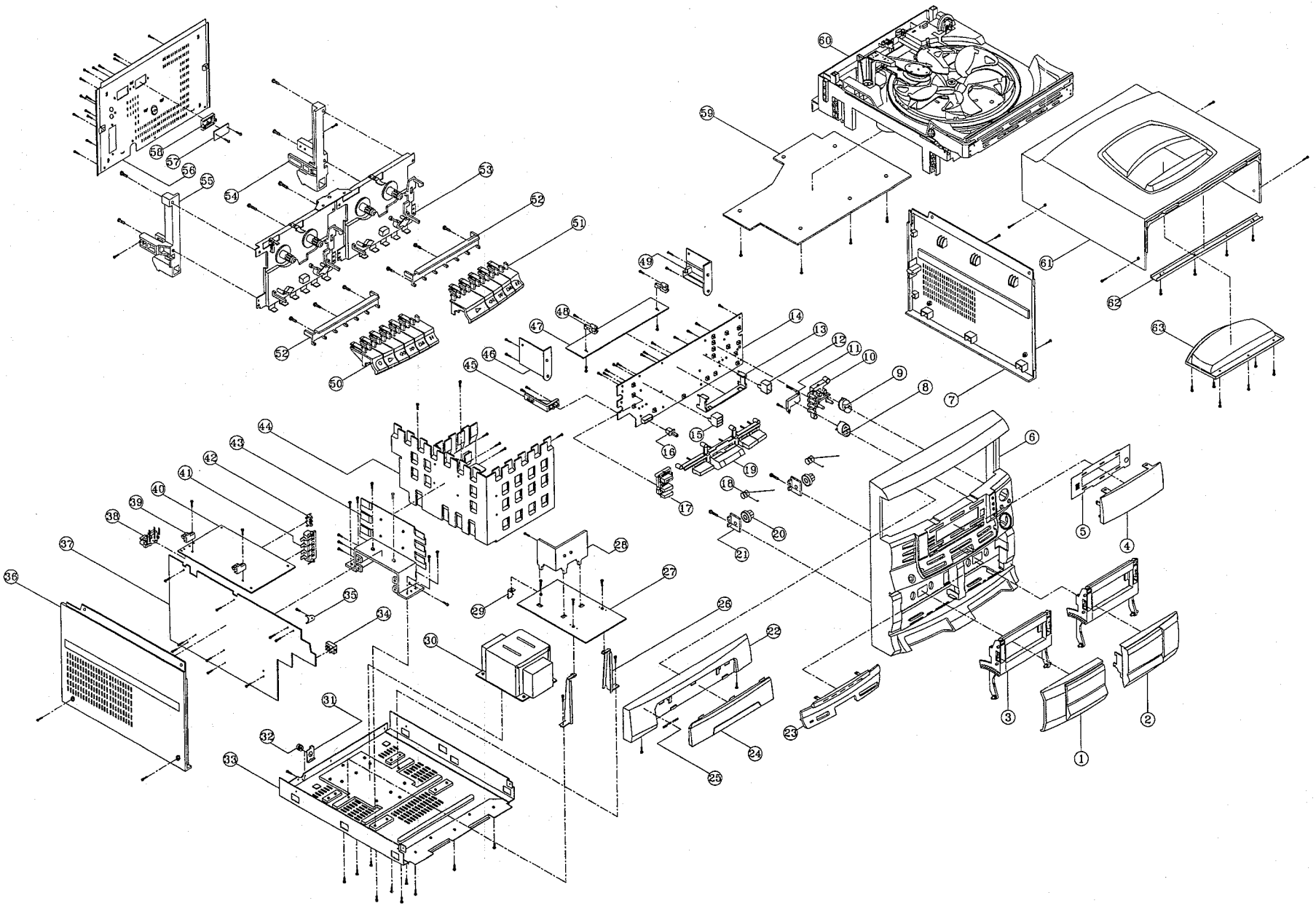
TUNER SECTION	
Frequency range	FM 87.5 - 108 MHz AM 530 - 1710 kHz (U.S.A. & Canada) AM 531-1602 kHz 9kHz (Europe) MW 530 - 1610 kHz 10kHz (Other countries)
Antenna	FM: antenna pig tail MW/AM: MW/AM loop antenna
AMPLIFIER SECTION	
Output power	10% T.H.D. 50W + 2W 10% T.H.D. 50W + 50W
Power consumption	210W (50W) 210W (2W)
Power requirements	AC 100V ~ 50/60Hz (Japan) AC 110/120V - 220/240V ~ 50/60Hz (Other countries) AC 120V ~ 60Hz (U.S.A. & Canada) AC 220V ~ 50Hz (China) AC 230-240V ~ 50Hz (Europe) AC 240 ~ 50Hz (Australia)
COMPACT DISC PLAYER SECTION	
Channels	2 channels
Signal to noise ratio	60 dB
Wow & flutter	undetectable
Sampling frequency	44.1 kHz
Quantization	1 bit linear/ch
Pick up light source	semiconductor laser
Pick up wave length	790 nm
CASSETTE SECTION	
Track format	4 tracks, 2 channels
Frequency response	normal tape:80 - 10,000 Hz
Signal to noise ratio	40 dB (normal tape)
Wow & flutter	0.35% (WRMS)
Tape speed	4.8 cm/sec.
Rewind / fast forward time	120 sec [C-60]
Recording system	AC bias
Erasing system	magnetic erase
Motor	DC motor x 1
Heads	record/playback head x 1 (deck A) erasure head x 1 (deck A) playback head x 1 (deck B)
SPEAKERS	6.5 inches cone type woofer, 2.25 inches cone type tweeter (50W) 6 inches cone type woofer, 2.25 inches cone type tweeter (2W)
Impedance	8 ohms 60W (50W) 8 ohms 3W (2W)
Dimensions (WxDxH)	[200mm x 240mm x 375mm] x 2 (50W) [200mm x154mm x 326mm] x 2 (2W)
Weight	3.2 kgs x 2 (50W) 2.4 kgs x 2 (2W)
COMMON SECTION	
Dimensions (WxDxH)	288mm x 390mm x 333mm
Weight	8.6 kgs (50W) 8 kgs (2W)

Specifications and external appearance are subject to change without advance notice due to continuous product improvement.

KAT. 992 **DATUM 21.01.99**

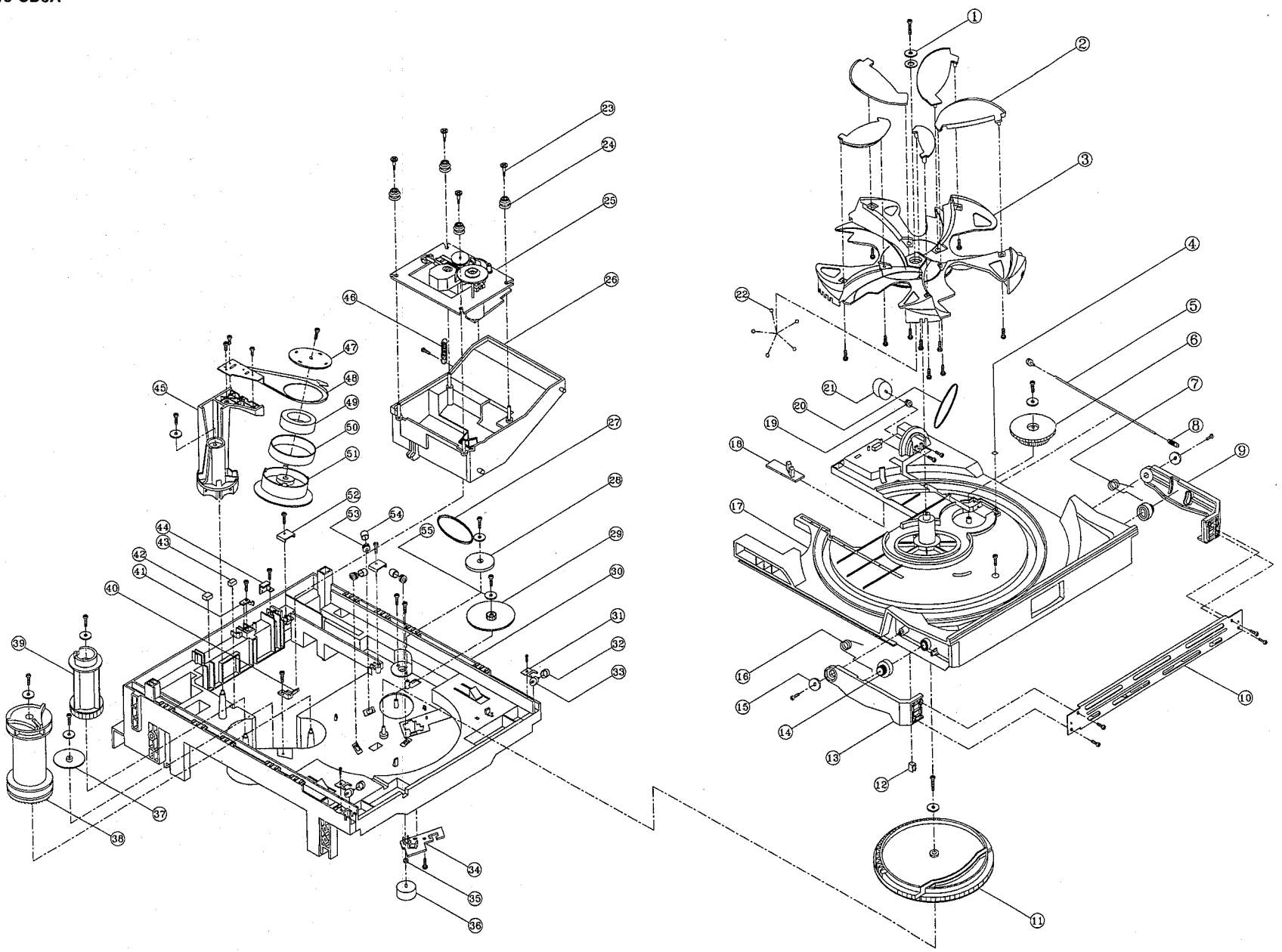
EXPLODED DRAWING - MAIN UNIT

(FOR 50W/VDE)

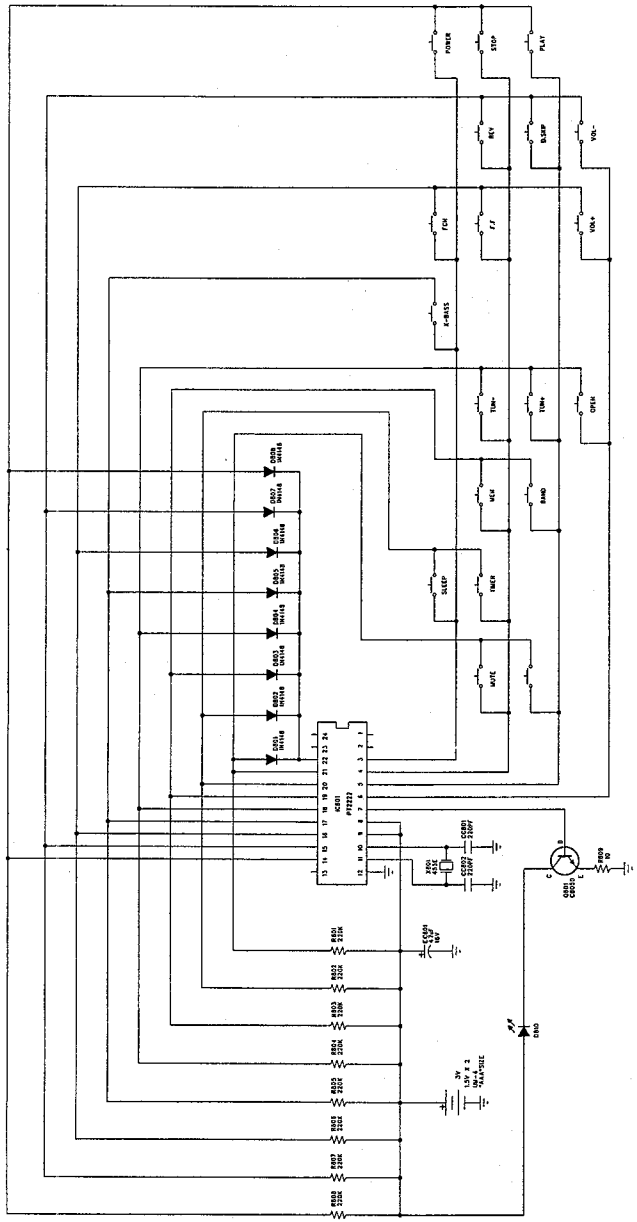


5-CD3/5-CD3A

EXPLODED DRAWING - (5-DISC CHANGER MECHANISM)



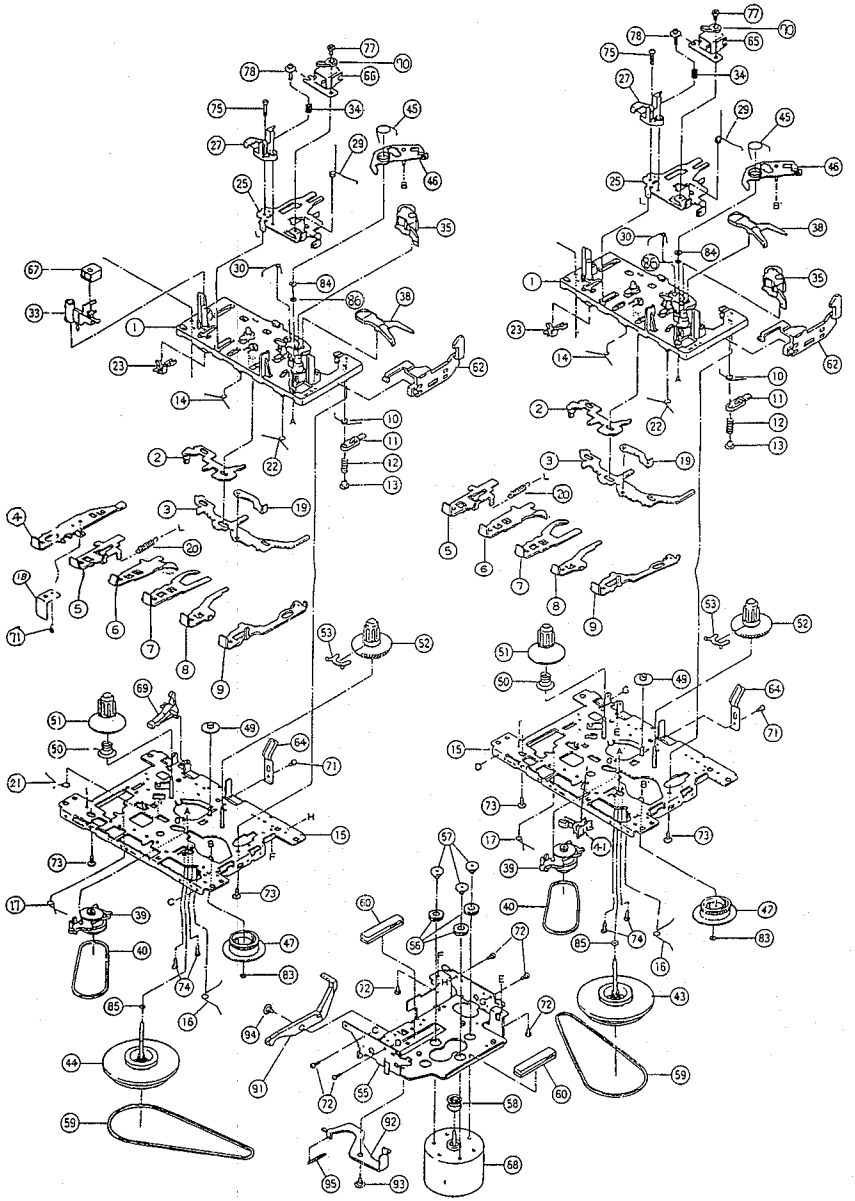
REMOTE SECTION



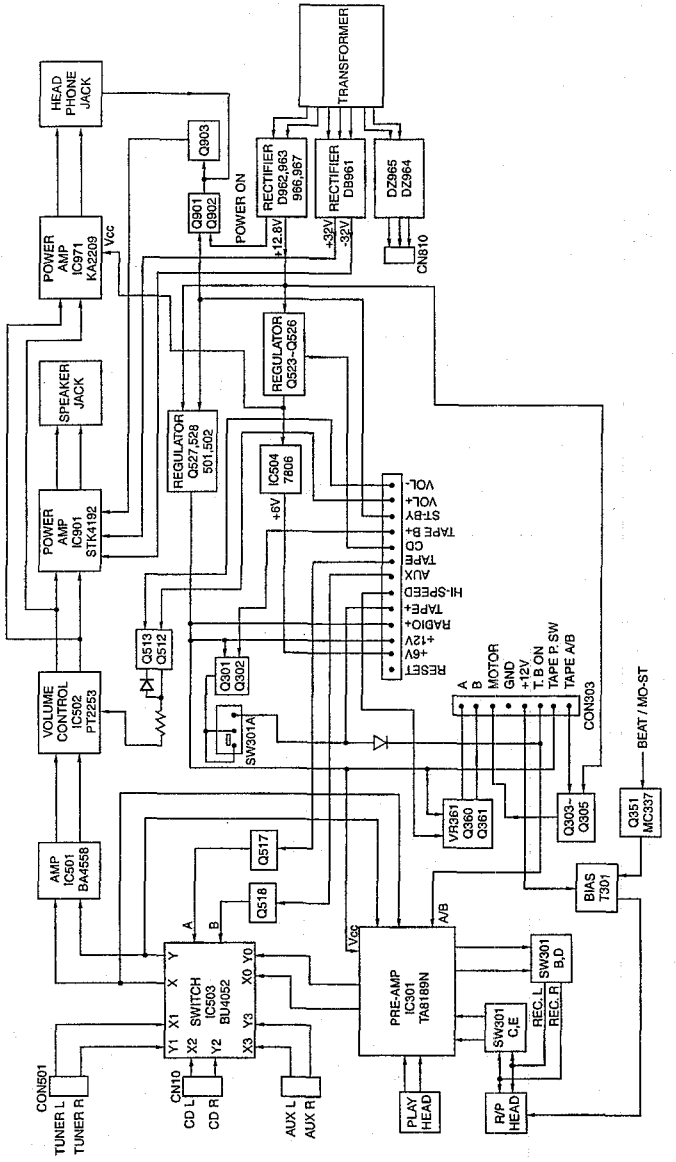
NOTE:
1. All resistance values are indicatd in "ohms" (k=1000 ohms. M=1000 kohms)
2. All capacitance values are indicated in "μF" ($p=10^{-6}$ μF)

EXPLODED DRAWING - CASSETTE DECK

TK20FX-SW907-900

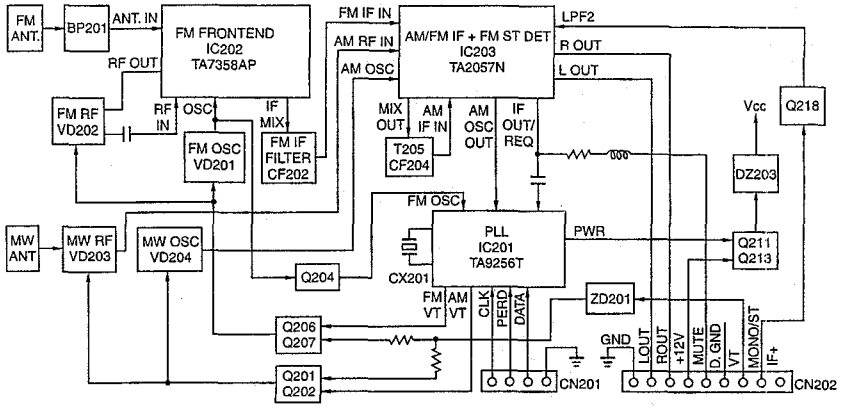


CASSETTE & POWER SECTION
(FOR 50W/VDE)

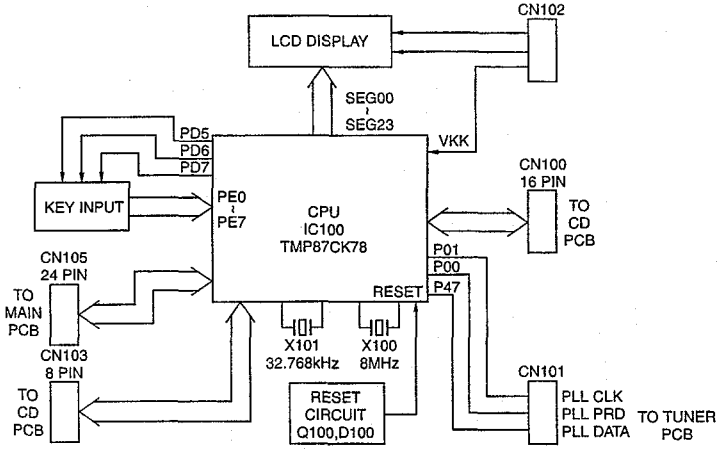


BLOCK DIAGRAMS

TUNER SECTION



CONTROL SECTION



VOLTAGE CHART

TUNER SECTION

TEST CONDITION: SET AM/FM TUNER ON ONE FREQUENCY

IC202 TA-7358AP

PIN'S NUMBER	1	2	3	4	5	6	7	8	8
FM	0.91	1.63	4.86	1.61	0	4.76	3.97	4.74	4.70

IC203 TA2057N

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
AM	2.00	0.56	0	2.01	5.22	5.52	0.02	0	0	0.98	5.11	1.30
FM	1.99	0.56	0	1.99	5.05	5.05	1.08	0	0	0	0	1.29
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
AM	1.37	5.01	4.11	0	1.37	1.66	1.48	1.85	2.01	2.01	5.52	2.02
FM	1.37	4.35	4.08	3.69	1.38	1.67	1.68	1.17	1.98	1.99	5.05	1.98

IC201 TC9256P

PIN'S NUMBER	1	2	3	4	5	6	7	8
AM	2.56	2.67	5.08	5.08	5.11	1.45	0.03	0.03
FM	2.49	2.61	5.06	5.05	4.96	1.44	2.42	0.03
PIN'S NUMBER	9	10	11	12	13	14	15	16
AM	5.10	2.66	0	0	2.64	5.10	1.10	1.10
FM	4.98	0	2.57	0	2.57	0	1.11	1.13

	Q201(2SC1815)			Q202(2SC1815)		
	E	C	B	E	C	B
AM	0.62	5.24	1.11	0	5.25	0.62

	Q206(2SC1815)			Q207(2SC1815)			Q203(2SC1815)			Q205(8550)		
	E	C	B	E	C	B	E	C	B	E	C	B
FM	0	4.95	0.63	0.63	4.95	1.11	0	0.11	0.68	4.87	4.86	4.13

	Q204(2SC535)			Q211(2SC1815)			Q213(8550)		
	E	C	B	E	C	B	E	C	B
FM	0	2.63	0.74	0	0.03	0.66	13.05	12.99	12.32

CASSETTE & POWER SECTION

TEST CONDITION: TAPE PLAY

IC301 TA8189N

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
DECK A PLAY	0	0	1.25	1.32	1.32	2.60	0	0	1.87	1.25	0	0
DECK B PLAY	0	0	1.25	1.32	1.32	2.60	0	0	1.87	1.25	0	0
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
DECK A PLAY	0.84	0	1.25	1.87	1.43	8.46	0	1.32	1.31	1.24	0	0
DECK B PLAY	0.84	0	1.25	1.87	1.43	8.46	1.88	1.32	1.31	1.24	0	0

IC502 PT2253A (KEEP VOLUME BUTTON FREE)

PIN'S NUMBER	1	2	3	4	5	6	7	8
	0	3.07	3.07	3.08	3.07	3.07	5.97	6.16
PIN'S NUMBER	9	10	11	12	13	14	15	16
	6.12	6.16	3.08	3.08	3.09	3.07	3.08	6.17

IC501 BA4558N

PIN'S NUMBER	1	2	3	4	5	6	7	8
TAPE PLAY	6.27	6.25	6.15	0	6.13	6.24	6.29	12.45

VOLTAGE CHART - CONTINUED

IC503 CD4052B/BE

PIN'S NUMBER	1	2	3	4	5	6	7	8
TAPE	0	0	0	0	0	0	0	0
TUNER	0	0	0	0	0	0	0	0
CD	0	0	0	0	0	0	0	0
AUX	0	0	0	0	0	0	0	0
PIN'S NUMBER	9	10	11	12	13	14	15	16
TAPE	0	0	0	0	0	0	0	6.84
TUNER	0	6.84	0	0	0	0	0	6.84
CD	6.84	0	0	0	0	0	0	6.84
AUX	6.84	6.84	0	0	0	0	0	6.84

IC901 TA8227P (FOR 2W VERSION)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
TAPE PLAY	10.42	5.42	10.11	0	0.58	0	0	0.58	5.73	10	5.47	14.60

IC901 STK-4192MK2 (FOR 50W VERSION)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9
TAPE PLAY	0	0.27	0	-0.32	-0.32	-0.82	-0.32	-0.06	-42.20
PIN'S NUMBER	10	11	12	13	14	15	16	17	18
TAPE PLAY	0.27	43.18	43.18	0.03	-42.20	-0.33	0	0.27	0

IC971 KA2209 (FOR 50W VERSION)

PIN'S NUMBER	1	2	3	4	5	6	7	8
TAPE PLAY	5.14	10.68	5.10	0	0.54	0	0	0.55

IC504 LM7806CT

PIN'S NUMBER	1	2	3
	14.70	0	6.03

	Q351(2SC1815)		
	E	C	B
REC./BEAT 1	0	15.74	0
REC./BEAT 2	0	0	0.70

	Q352(8050)		
	E	C	B
REC.	0.09	7.69	0.68

	Q360(A1015)			Q361(2SC1815)		
	E	C	B	E	C	B
REC./NOR	13.14	13.14	12.54	8.72	11.36	9.35
REC./HI	13.16	9.00	14.26	9.73	14.10	9.39

	Q303(8550)			Q304(2SC1815)			Q305(2SC1815)		
	E	C	B	E	C	B	E	C	B
DECK B PLAY	14.60	14.64	13.80	0	0	0.68	0	0	0.66

(FOR 2W VERSION)

	Q523(2SB1566)			Q524(2SC1815)			Q525(2SA1015)			Q526(2SC1815)		
	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	14.00	8.51	13.40	7.82	13.44	8.42	14.00	14.00	13.30	0	0	0.66

(FOR 50W VERSION)

	Q523(2SB1566)			Q524(2SC1815)			Q525(2SA1015)			Q526(2SC1815)		
	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	13.74	8.56	13.14	7.86	13.30	8.50	13.87	13.83	13.14	0	0	0.68

VOLTAGE CHART - CONTINUED

(FOR 2W VERSION)

	Q527(8550)			Q528(2SC1815)			Q529(2SA1015)			Q530(2SC1815)		
	E	C	B	E	C	B	E	C	B	E	C	B
TAPE PLAY	14.60	14.58	14.00	9.81	14.00	10.38	14.60	14.40	13.60	4.52	13.60	5.14

(FOR 50W VERSION)

	Q527(8550)			Q528(2SC1815)			Q501(2SA1015)			Q502(2SC1815)		
	E	C	B	E	C	B	E	C	B	E	C	B
TAPE PLAY	14.80	10.38	14.20	9.61	14.00	10.20	14.56	14.59	13.96	0	0.03	0.67

(FOR 50W VERSION)

	Q901(C114E)			Q902(A844)		
	E	C	B	E	C	B
POWER ON	0	0	4.28	15.08	15.00	14.40
ST. BY	15.95	0	15.84	0	0.61	0

(FOR 50W VERSION)

	Q903(2SC1815)		
	E	C	B
EARPHONE ON	0	-0.59	0
EARPHONE OFF	0	0	0.65

CD SECTION

TEST CONDITION: CD PLAY

IC101 TMP87CK78F-6711VFD

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
	5.08	4.85	4.59	4.41	4.56	4.71	4.32	0.07	5.13	5.91	5.91	5.91
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
	5.66	0.03	0.03	0.03	5.05	0.03	5.07	5.05	0.03	0.03	0.03	5.08
PIN'S NUMBER	25	26	27	28	29	30	31	32	33	34	35	36
	5.08	5.94	0.03	1.69	2.72	0.02	2.32	2.44	4.98	0.02	5.62	4.75
PIN'S NUMBER	37	38	39	40	41	42	43	44	45	46	47	48
	1.24	1.22	0.04	0.04	1.21	5.07	5.07	0.05	5.03	0.05	0.05	0.05
PIN'S NUMBER	49	50	51	52	53	54	55	56	57	58	59	60
	0.05	-14.82	4.94	4.94	3.94	-14.77	-14.78	5.45	-14.74	5.04	-14.72	-14.74
PIN'S NUMBER	61	62	63	64	65	66	67	68	69	70	71	72
	-11.90	-11.88	-11.89	-11.90	-11.92	-11.90	-14.70	-14.76	-4.87	-1.54	-8.13	-8.10
PIN'S NUMBER	73	74	75	76	77	78	79	80	81	82	83	84
	-4.80	-1.56	-4.81	-8.09	-8.12	-11.43	-11.43	-14.72	-8.12	-11.42	-11.47	-11.40
PIN'S NUMBER	85	86	87	88	89	90	91	92	93	94	95	96
	5.94	0.02	-0.40	5.08	5.08	5.08	-0.27	-0.41	-0.42	-0.41	-0.42	-0.41
PIN'S NUMBER	97	98	99	100								
	-0.38	-0.40	-0.47	-0.40								

IC2 TA2065F

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
	2.09	2.06	2.08	4.12	2.25	2.27	2.06	2.06	2.09	2.08	1.98	1.98
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
	2.08	2.08	2.08	2.12	2.09	2.45	0	4.87	4.86	2.10	2.09	2.16
PIN'S NUMBER	25	26	27	28	29	30	31	32	33	34	35	36
	2.07	2.04	2.07	2.07	1.34	2.07	2.07	2.07	2.07	2.07	2.06	2.07
PIN'S NUMBER	37	38	39	40	41	42	43	44	45	46	47	48
	2.07	2.08	1.80	2.03	2.05	1.80	2.07	2.07	3.71	0.19	2.07	2.08

VOLTAGE CHART - CONTINUED

IC1 TC9284BF

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
	0	2.54	2.75	4.89	2.76	2.53	0	4.86	4.86	4.87	4.89	4.89
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
	0	4.53	4.53	4.45	4.51	4.34	4.72	2.28	4.88	0.09	0.09	0.01
PIN'S NUMBER	25	26	27	28	29	30	31	32	33	34	35	36
	4.89	0	0.61	2.08	2.08	2.08	1.61	2.08	1.70	2.08	4.86	1.80
PIN'S NUMBER	37	38	39	40	41	42	43	44	45	46	47	48
	4.86	2.08	2.08	2.20	4.09	4.83	2.42	2.43	2.07	2.06	2.07	2.07
PIN'S NUMBER	49	50	51	52	53	54	55	56	57	58	59	60
	2.07	2.26	2.24	2.07	2.08	0	2.36	4.86	2.35	4.86	4.87	2.07
PIN'S NUMBER	61	62	63	64	65	66	67	68	69	70	71	72
	2.03	2.07	1.93	1.44	0	4.85	0	0	1.62	2.43	2.43	2.01
PIN'S NUMBER	73	74	75	76	77	78	79	80				
	2.41	0.01	2.42	4.83	4.87	2.04	2.17	0				

IC3 TA2092N

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
	0.01	3.46	7.77	3.67	2.11	2.08	3.56	2.05	3.46	7.79	3.69	0
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
	0	3.18	7.78	3.86	2.17	0	7.78	2.07	3.56	7.81	3.60	0

IC4 BA4558N

PIN'S NUMBER	1	2	3	4	5	6	7	8
	5.01	4.54	4.52	0	4.51	4.50	4.96	7.42

IC91 BA6209

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
	0	0.57	0.92	1.07	0.06	0.06	8.40	8.40	0.94	0.57

IC92 BA6209

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
	0	0.55	0.92	0.40	0.06	0.06	8.40	8.40	0.94	0.55

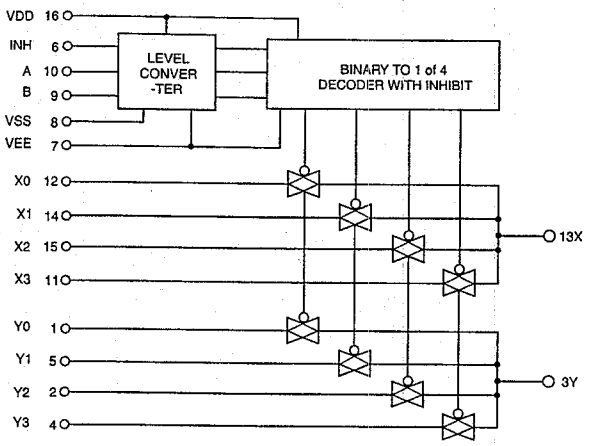
REMOTE SECTION

TEST CONDITION: QUIESCENT VOLTAGE

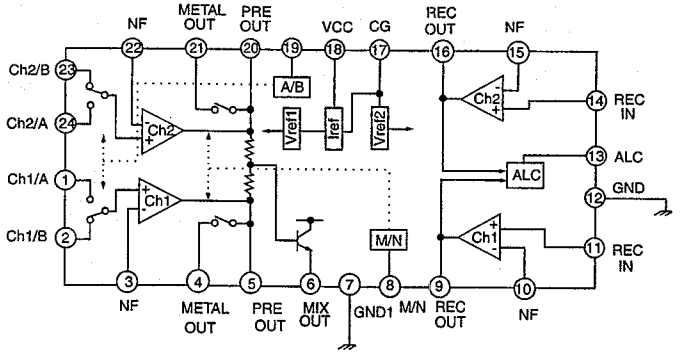
IC801 PT2222-001

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
	0	0	0	0	0	0	0	3.00	3.00	3.00	2.14	0
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	0	0

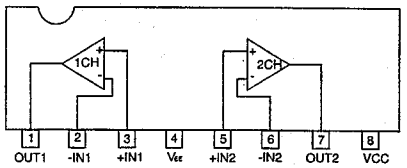
IC503 CD4052B / BE



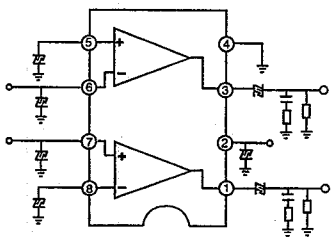
IC301 TA8189N



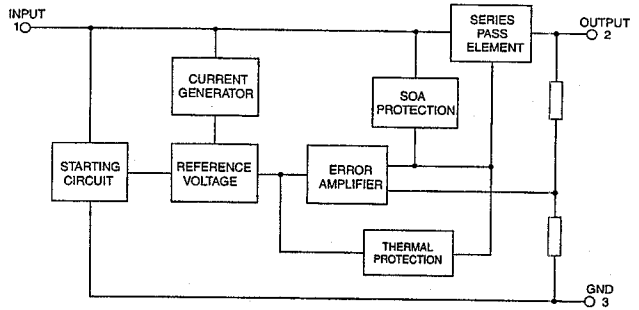
IC4,501 BA4558N



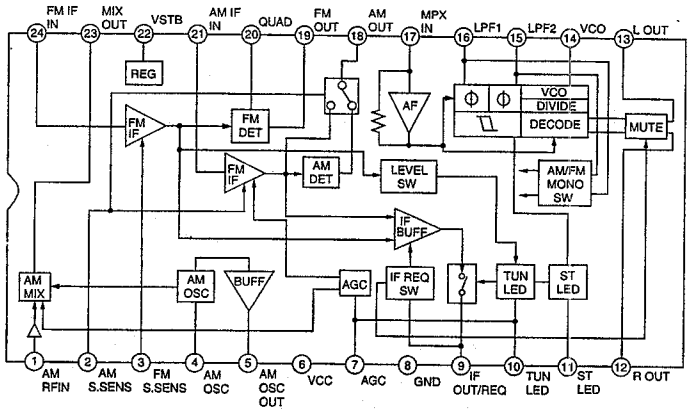
IC971 KA2209 (FOR 50W/VDE)



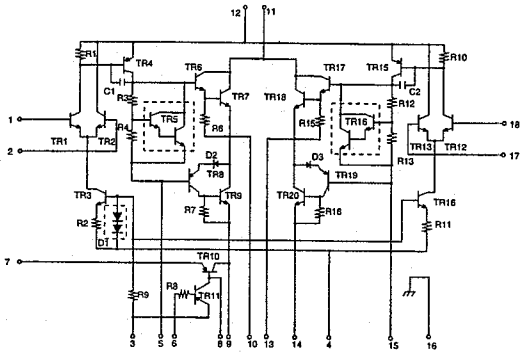
IC504 LM7806CT/L7806CV



IC203 TA2057N

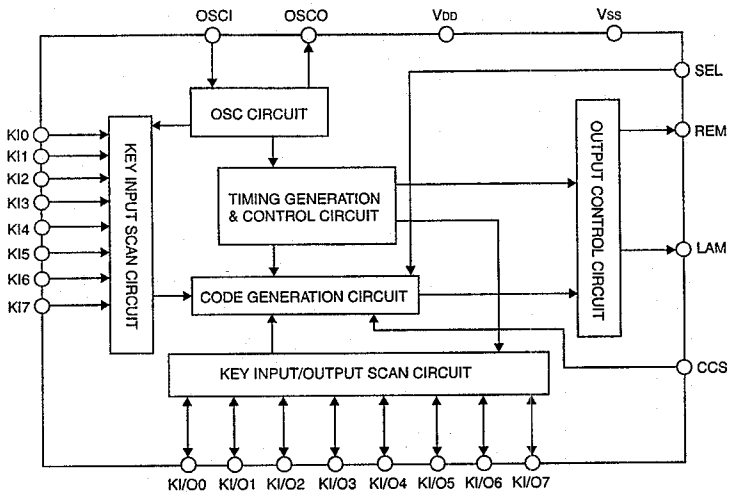


IC901 STK-4192MK2 (FOR 50W/VDE)

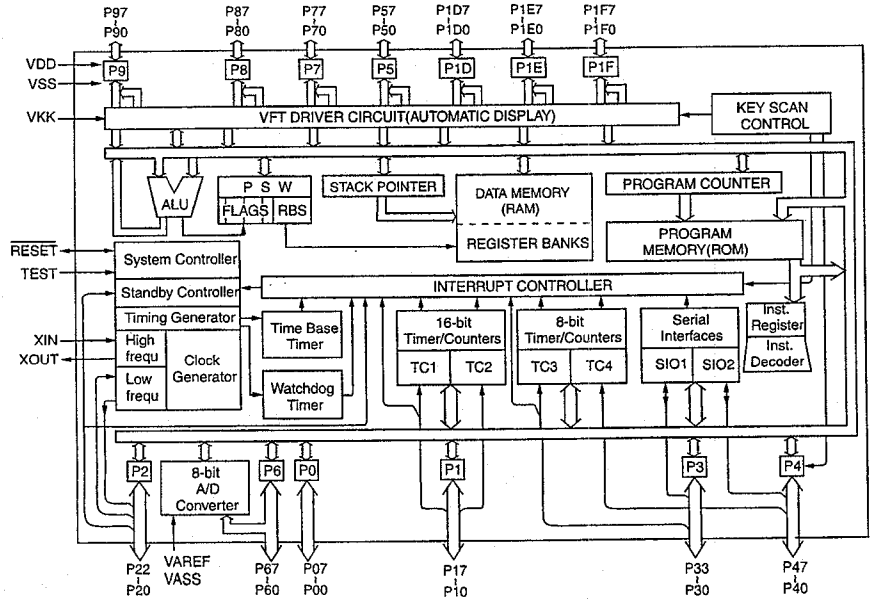


IC LEAD IDENTIFICATION AND INTERNAL DIAGRAMS

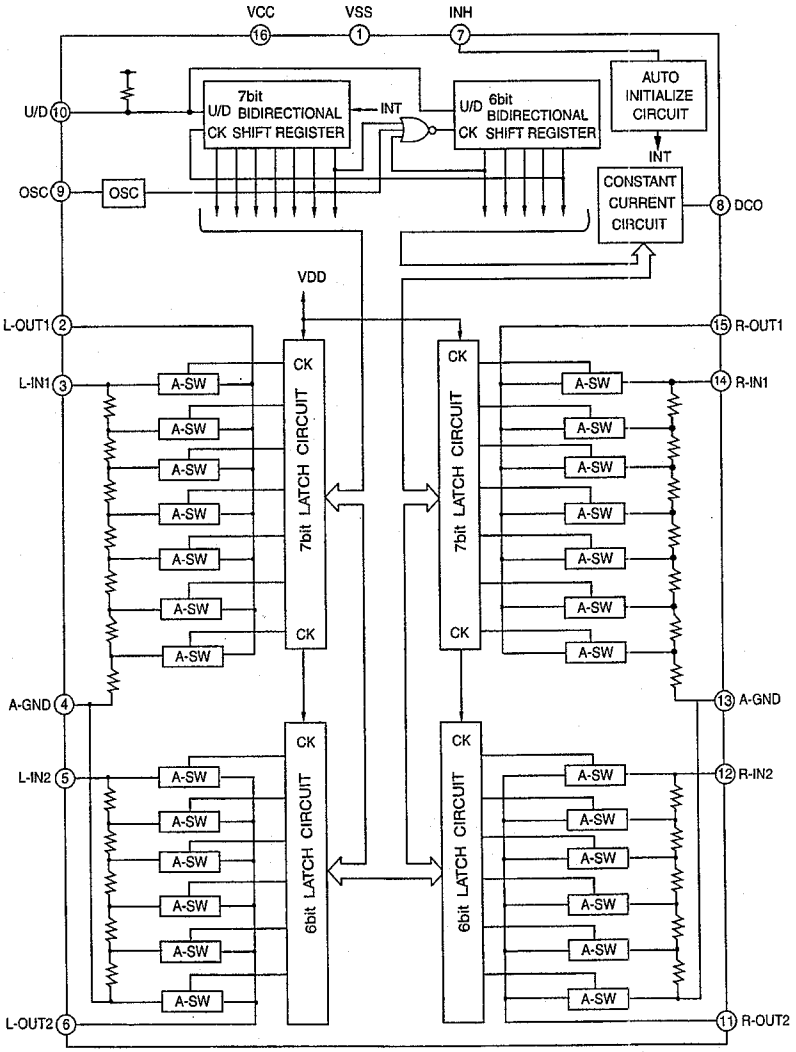
IC801 PT2222-001



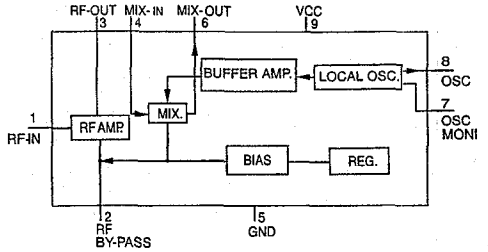
IC100 TMP87CK78F-6711



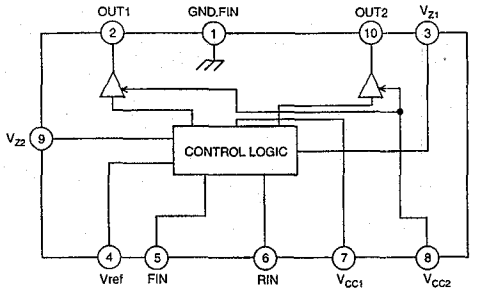
IC502 PT2253A



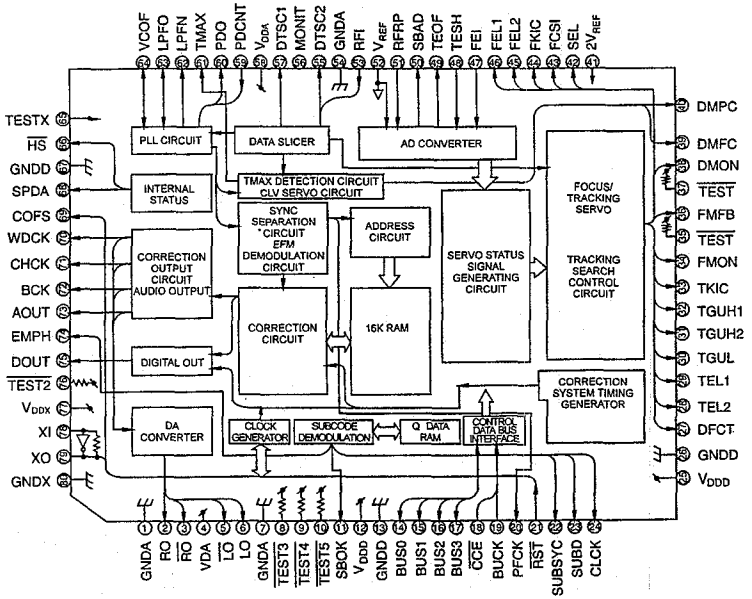
IC202 TA-7358AP



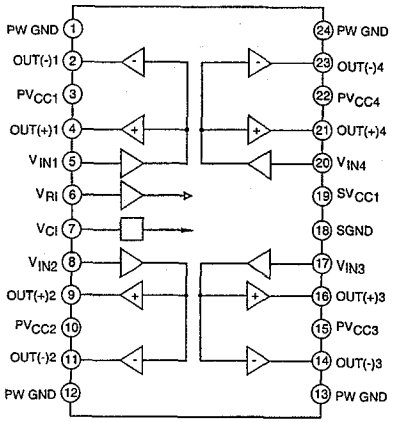
IC91,92 BA6209



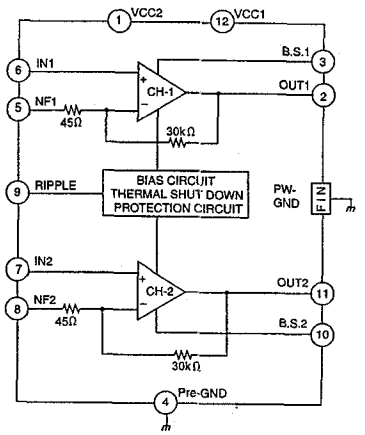
IC1 TC9284BF


VCOF LPFO LPFN TMAX PDO PDCNT V_{DDA} DTSC1 MONIT DTSC2 GNDA RFI V_{REF} RFRP SBAD TEOF TESH FEI FEL1 FEL2 FKIC FCSI SEL $2V_{REF}$
TESTX HS GNDD SPDA COFS WDCK CHCK BCK AOUT EMPH DOUT TEST2 V_{DDX} XI XO GNDX
DMPC DMFC DMON TEST FMFB TEST FMON TKIC TGUH1 TGUH2 TGUL TEL1 TEL2 DFCT GNDD V_{DDD}
PLL CIRCUIT
DATA SLICER
AD CONVERTER
INTERNAL STATUS
TMAX DETECTION CIRCUIT CLV SERVO CIRCUIT
SYNC SEPARATION CIRCUIT EFM DEMODULATION CIRCUIT
ADDRESS CIRCUIT
SERVO STATUS SIGNAL GENERATING CIRCUIT
FOCUS/ TRACKING SERVO
TRACKING SEARCH CONTROL CIRCUIT
CORRECTION OUTPUT CIRCUIT AUDIO OUTPUT
CORRECTION CIRCUIT
16K RAM
DIGITAL OUT
CORRECTION SYSTEM TIMING GENERATOR
DA CONVERTER
CLOCK GENERATOR
SUBCODE DEMODULATION
Q DATA RAM
CONTROL DATA BUS INTERFACE
GNDA RO RO VDA LO LO GNDA TEST3 TEST4 TEST5 SBOK V_{DDD} GNDD BUS0 BUS1 BUS2 BUS3 CCE BUCK PFCK RST SUBSYC SUBD CLCK

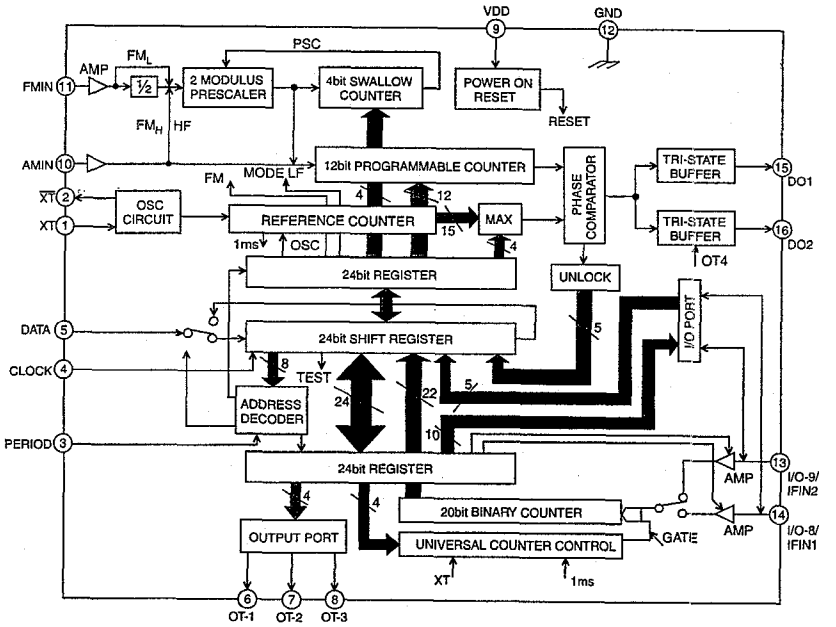
IC3 TA2092N



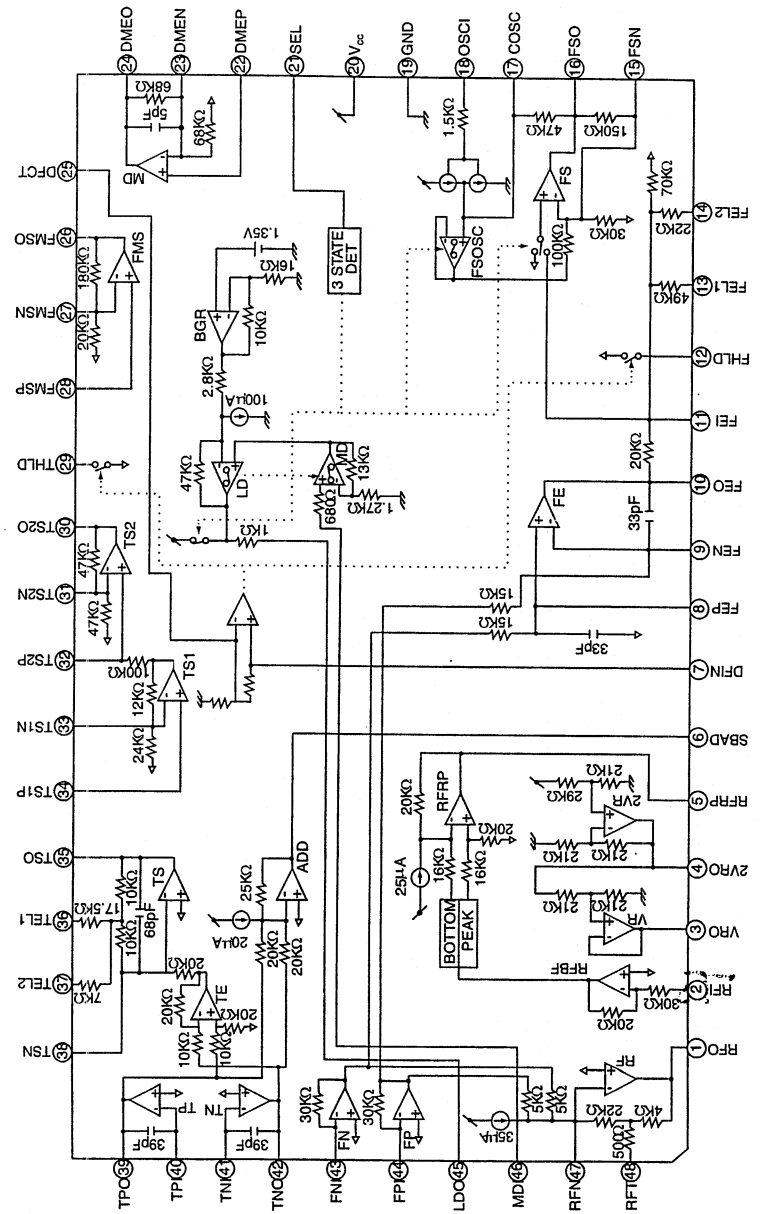
IC901 TA8227P (FOR 2W/CUL)



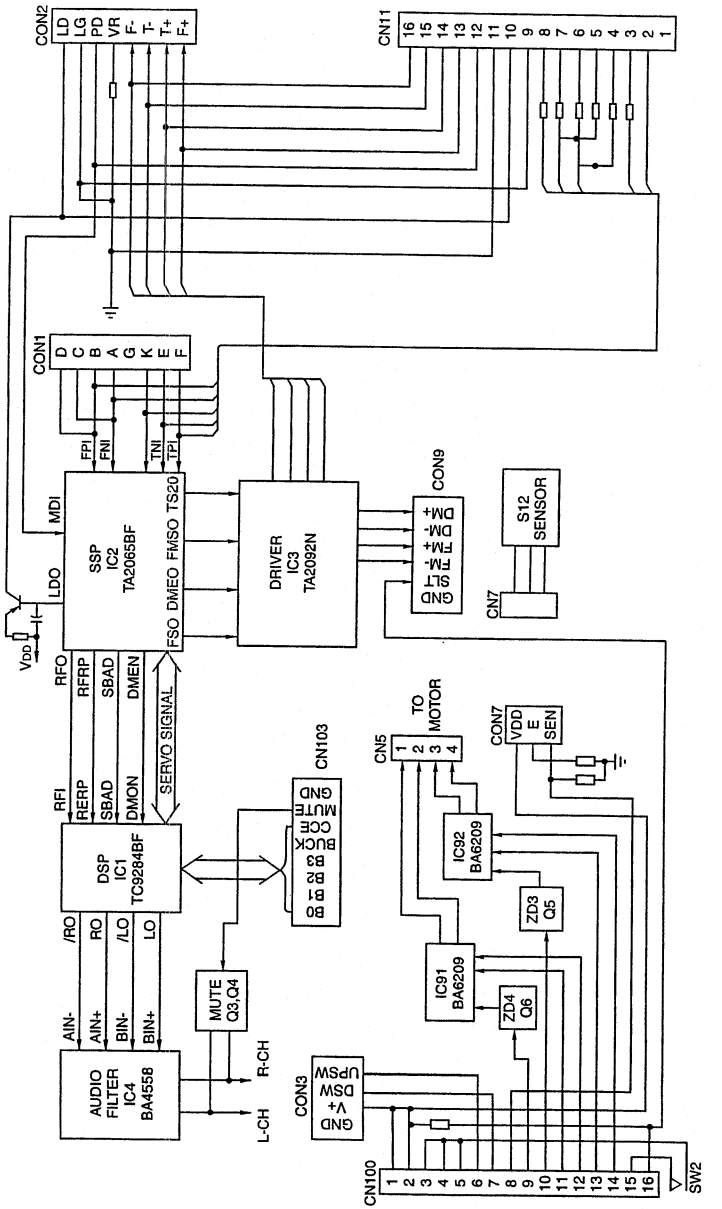
IC201 TC9256P



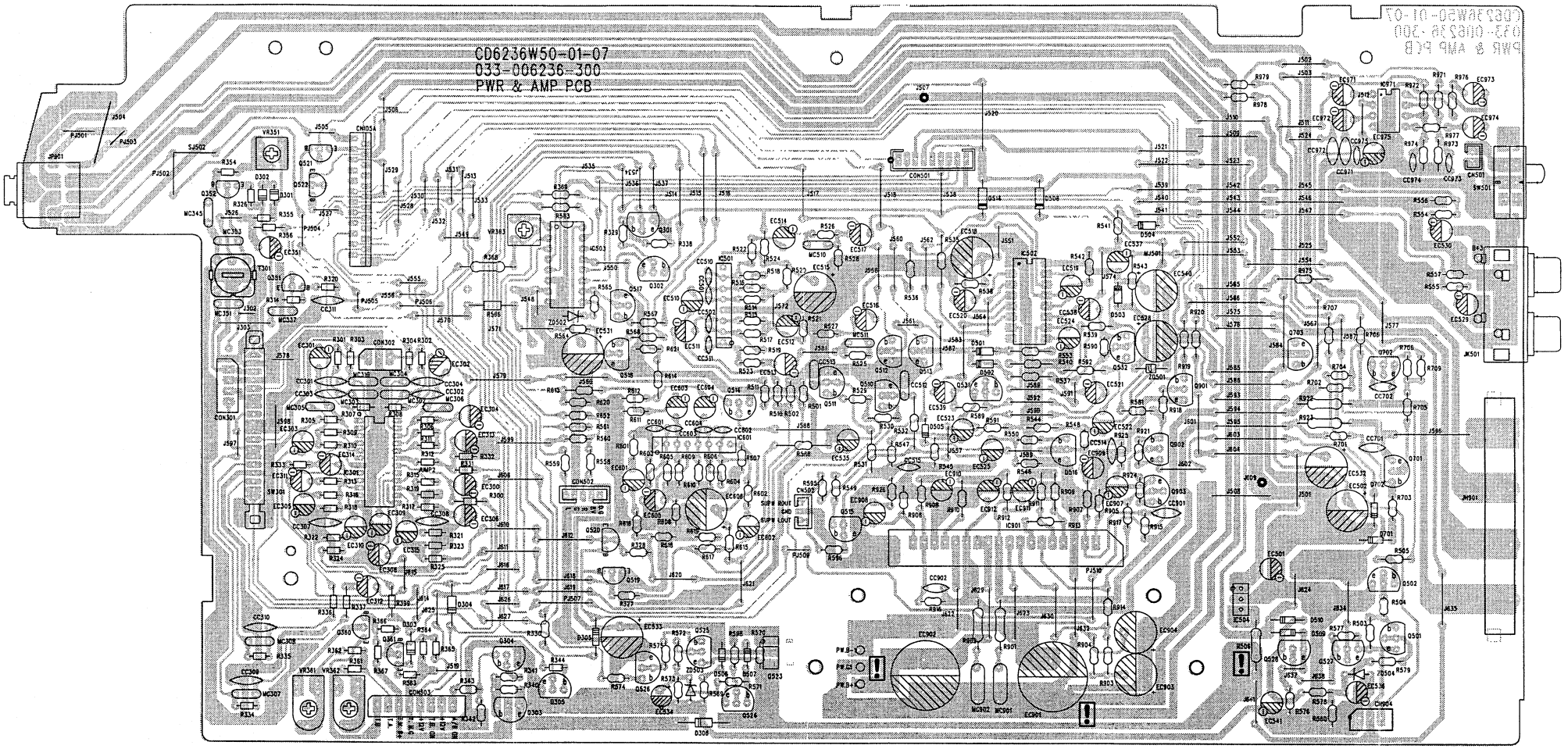
IC2 TA2065F



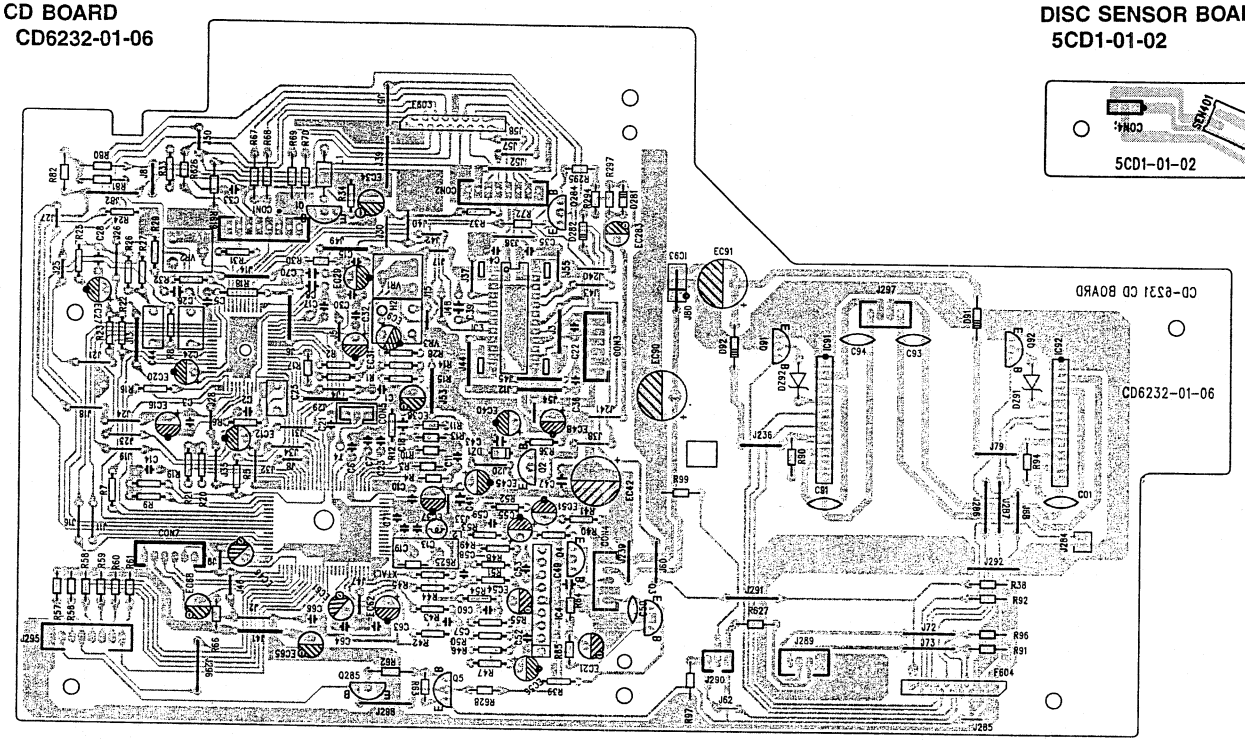
CD SECTION



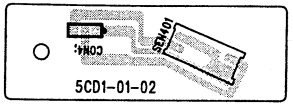
MAIN BOARD (FOR 50W/VDE)
CD6236W50-01-07



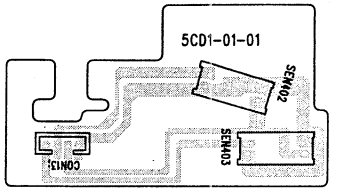
CD BOARD
CD6232-01-06



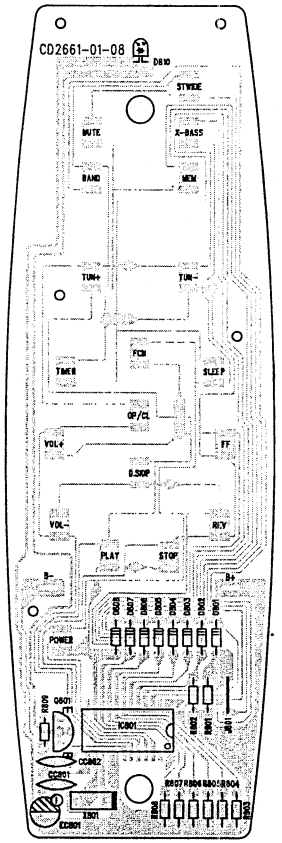
DISC SENSOR BOARD
5CD1-01-02



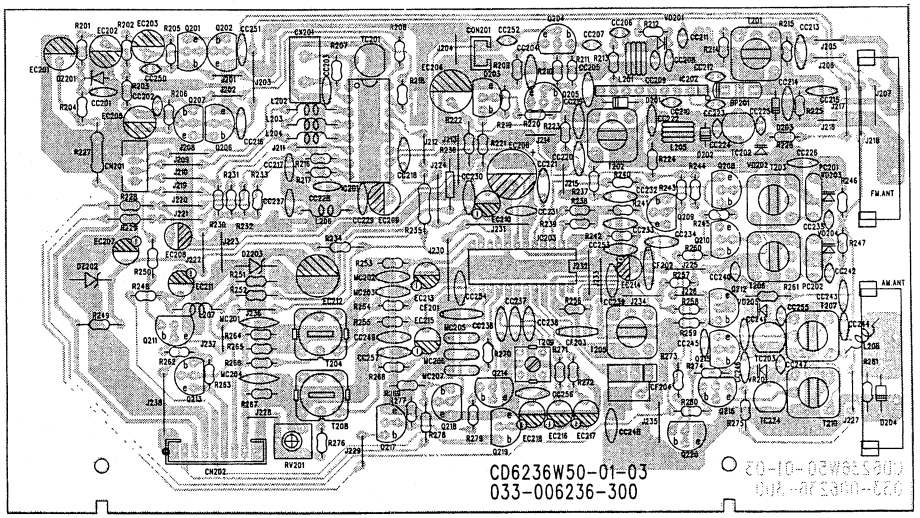
OPEN/CLOSE SENSOR BOARD
5CD1-01-01



REMOTE BOARD
CD2661-01-08

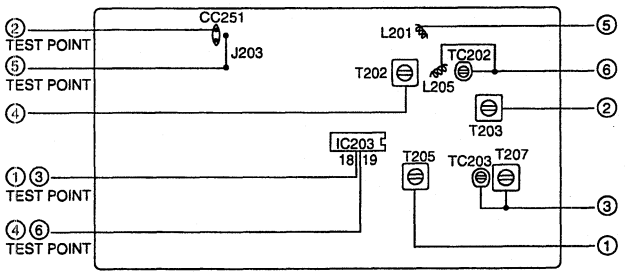


TUNER BOARD (FOR 50W/VDE)
CD6236W50-01-03



ALIGNMENT SET-UP PROCEDURES

TUNER SECTION



CD6236-01-03 & CD6236W50-01-03

1. AM IF Adjustment
   Test point: IC203(TA2057N) 18 PIN
   Adjustment location: T205
   T205 ------- 450 kHz

2. AM Frequency Range Adjustment
   Test point: CC251
   Set the tuner frequency to be 1602 kHz (VDE)
   or 1710 kHz (UL)
   Adjustment location: T203
   T203 ------- test point voltage is 8.2 ± 0.1 V

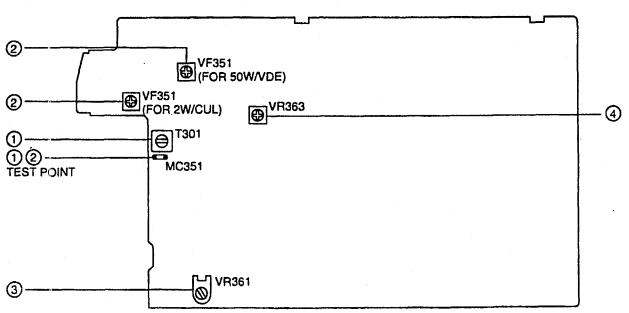
3. AM Tracking Adjustment
   Test point: IC203(TA2057N) 18 PIN
   Adjustment location: T207, TC203
   T207 ------- 602 kHz waveform maximum (VDE)
   600 kHz waveform maximum (UL)
   TC203 ----- 1404 kHz waveform maximum (VDE)
   1400 kHz waveform maximum (UL)

4. FM IF Adjustment
   Test point: IC203(TA2057N) 19 PIN
   Adjustment location: T202
   T202 ------- 10.7 MHz

5. FM Frequency Range Adjustment
   Test point: J203
   Set the tuner frequency to be 108 MHz
   Adjustment location: L201
   L201 ----- test point voltage is 8.2 ± 0.1 V

6. FM Tracking Adjustment
   Test point: IC203(TA2057N) 19 PIN
   Adjustment location: L205, TC202
   L205 -------- 90 MHz waveform maximum
   TC202 ----- 106 MHz waveform maximum

CASSETTE SECTION



CD6236W2-01-04 & CD6236W50-01-07

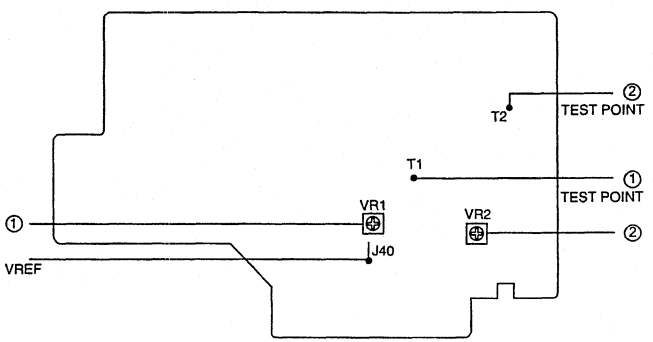
1. Bias Frequency Adjustment
   Test point: MC351
   Adjustment ocation: T301
   T301 ------- 60 ± 2 kHz

2. Bias Level Adjustment
   Test point: MC351
   Adjustment location: VR351
   VR351 ---- 13 ± 1 V

3. Tape Speed Adjustment
   Test point: headphone jack
   Adjustment location: VR361
   VR361 ---- 3000 +90 / -60 Hz

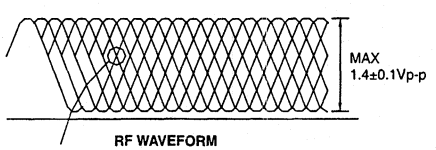
4. RCH & LCH Balance Adjustment
   Test point: headphone jack
   Adjustment location: VR363
   1) Set 1 kHz input signal on IC301(TA8189)
   2 pin and 23 pin.
   2) Connect a VTVM input to the RCH and
   LCH of the headphone jack.
   3) Adjust VR363 so that two pointer of VTVM
   on the same position.

CD SECTION



CD6232-01-06

1. RF Adjustment
   Test point: T1 and VREF
   1) Connect an oscilloscope to the test points
   2) Turn on the power switch
   3) Load the test Disc(TCD-782) and play
   the NO.2(1 kHz, 0 dB)
   4) Adjust VR1 so that the RF peak is maximum
   and waveform eye pattern is optimum
   5) Turn off the power switch

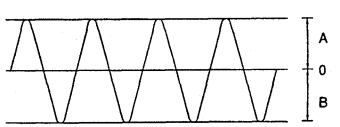


RF WAVEFORM

EYE PATTERN
MUST BE CLEAR

VOLT/DIV:0.5V
TIME/DIV:1mS

2. EF Balance Adjustment
   Test point: T2 and VREF
   1) Connect an oscilloscope to the test points
   2) Turn on the power switch
   3) Load the test Disc (TCD-782). After
   CD playing, press ▷▷| or |◁◁ until EF
   waveform appearance
   4) Adjust VR2 so that EF waveform is
   symmetrical
   5) Turn off the power switch



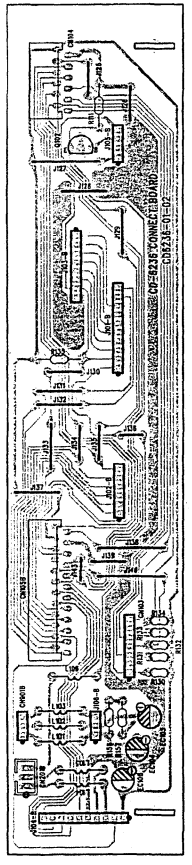
EF WAVEFORM

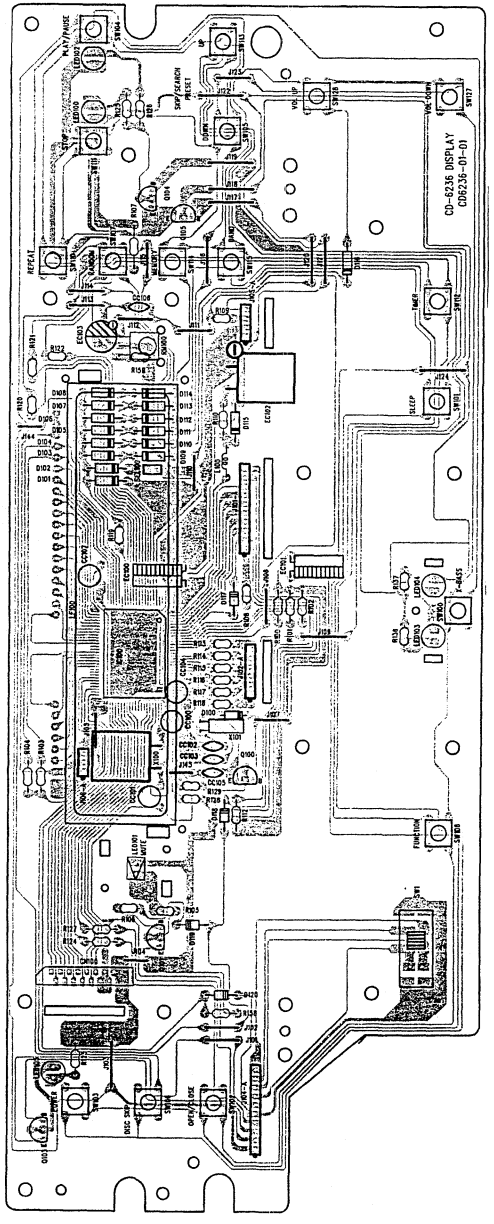
A=B

VOLT/DIV:20mV
TIME/DIV:1mS

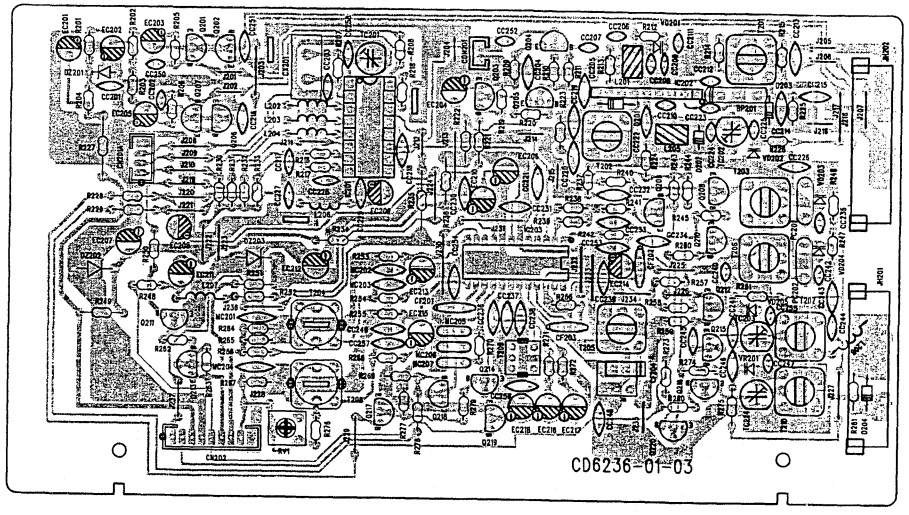
PRINTED CIRCUIT BOARDS

CONTROL & DISPLAY BOARD
CD6236-01-01
CONNECT BOARD
CD6236-01-02

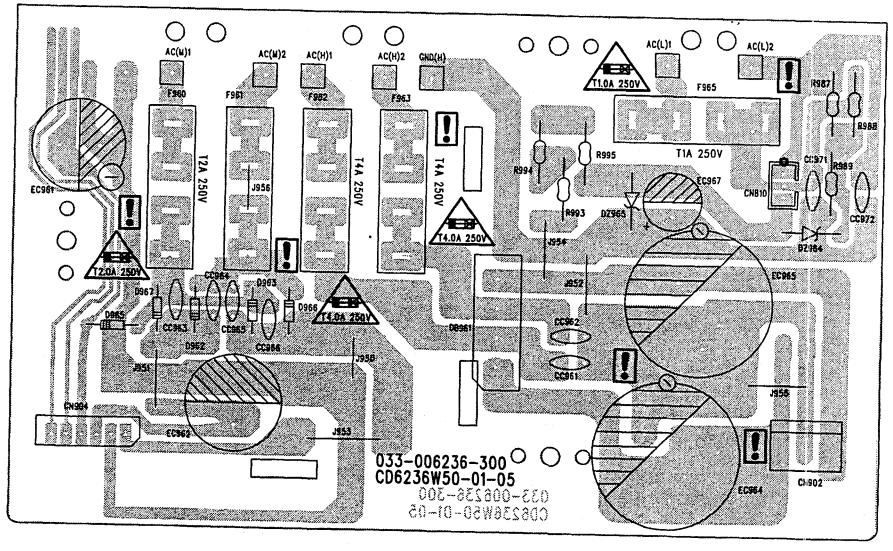




TUNER BOARD (FOR 2W/CUL)
CD6236-01-03

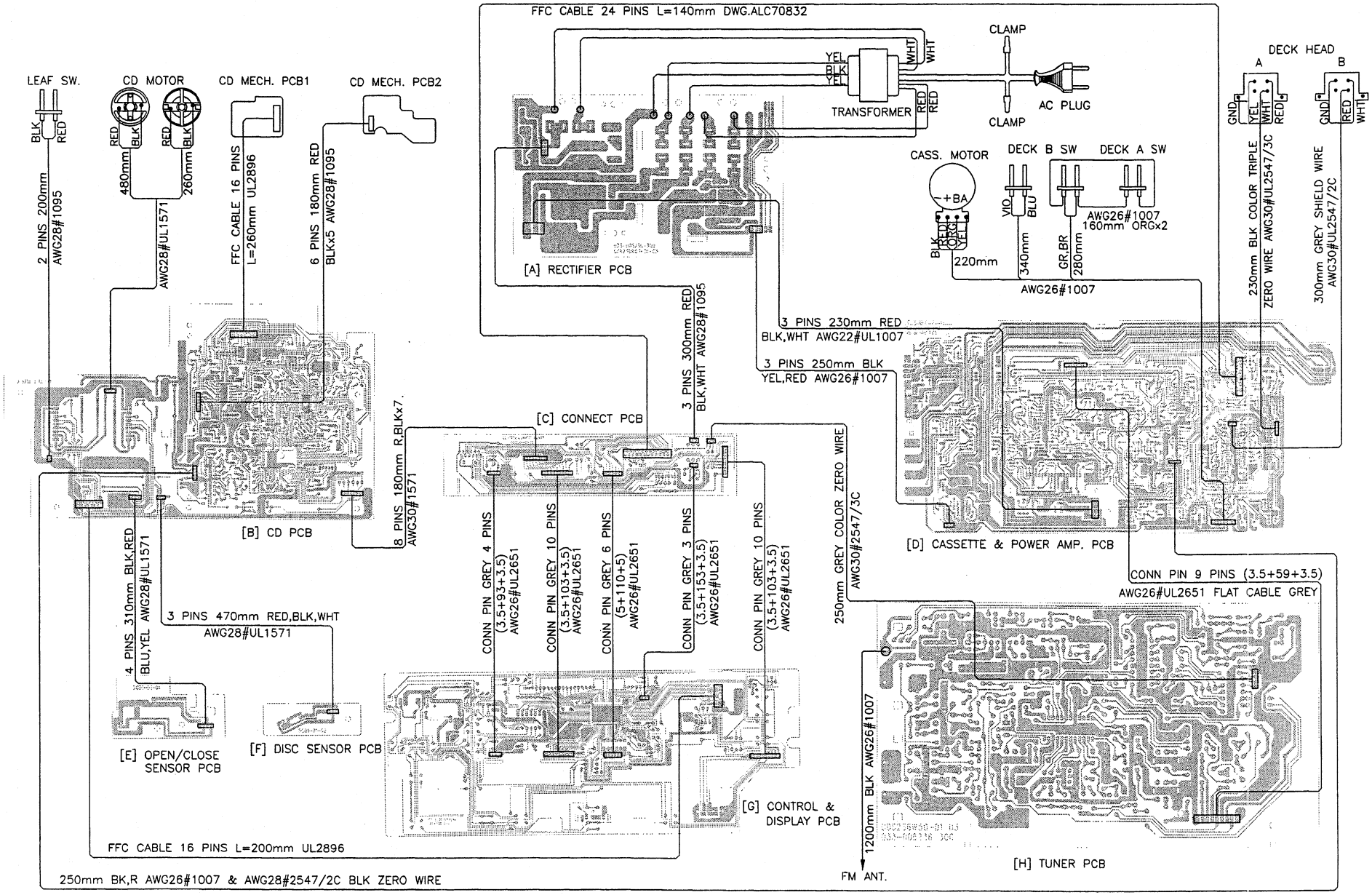


RECTIFIER BOARD (FOR 50W/VDE)
CD6236W50-01-05

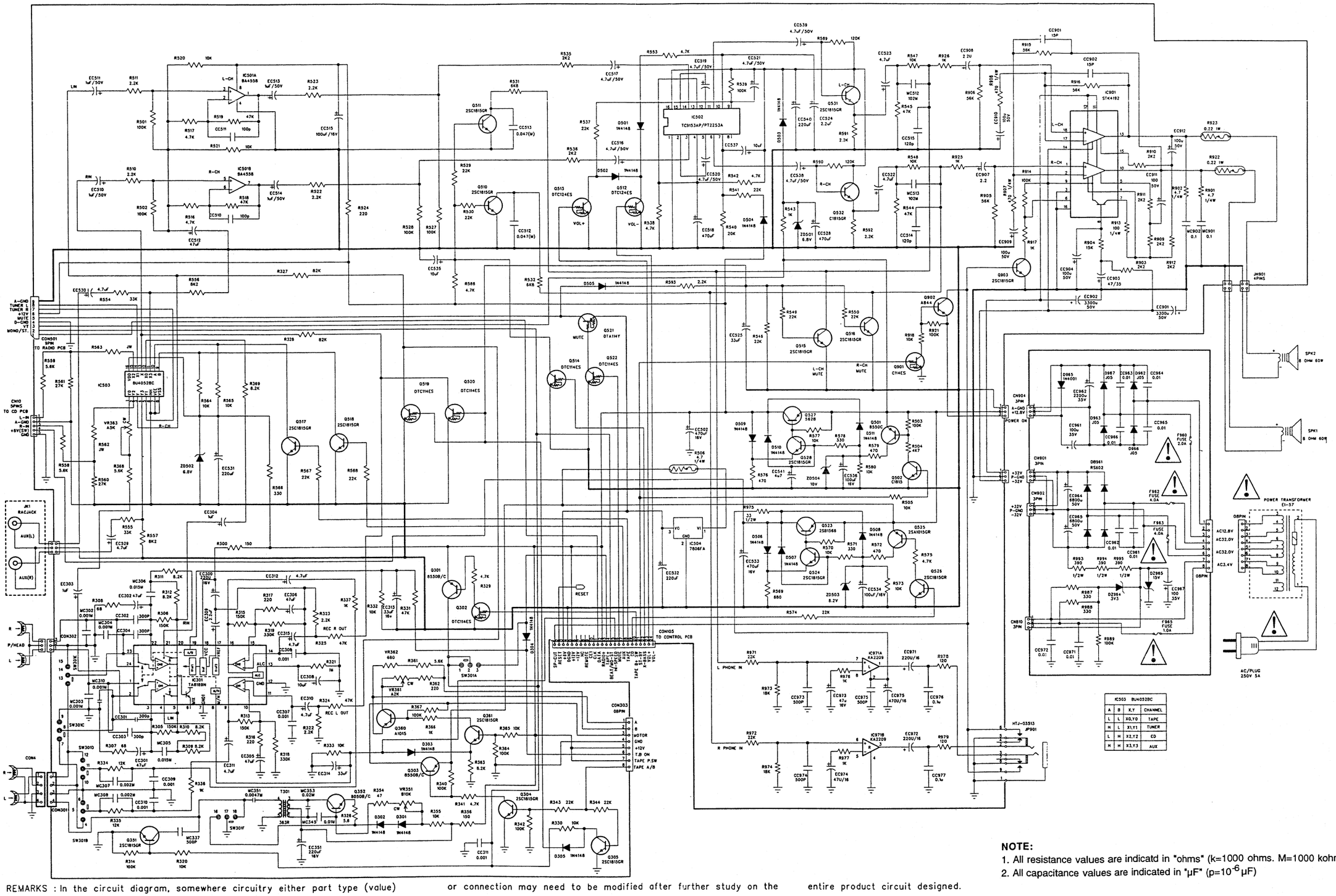


REMARKS:
PCB Part No.: 033-006236-200, 033-006236-300 of this model are assembled and aligned in FULL SET and are supplied in FULL SET for serving.

(FOR 50W/VDE)


FFC CABLE 24 PINS L=140mm DWG.ALC70832
CLAMP
YEL
BLK
YEL
WHT
WHT
TRANSFORMER
RED
RED
CLAMP
AC PLUG
DECK HEAD
A
B
GND
YEL
WHT
RED
GND
RED
WHT
LEAF SW.
CD MOTOR
CD MECH. PCB1
CD MECH. PCB2
BLK
RED
2 PINS 200mm
AWG28#1095
RED
BLK
RED
BLK
480mm
260mm
AWG28#UL1571
FFC CABLE 16 PINS
L=260mm UL2896
6 PINS 180mm RED
BLKx5 AWG28#1095
CASS. MOTOR
+BA
BLK
RED
ORG
YEL
DECK B SW
DECK A SW
VIO
BLU
GR,BR
220mm
340mm
280mm
AWG26#1007
160mm ORGx2
AWG26#1007
230mm BLK COLOR TRIPLE
ZERO WIRE AWG30#UL2547/3C
300mm GREY SHIELD WIRE
AWG30#UL2547/2C
[A] RECTIFIER PCB
3 PINS 300mm RED
BLK,WHT AWG28#1095
3 PINS 230mm RED
BLK,WHT AWG22#UL1007
3 PINS 250mm BLK
YEL,RED AWG26#1007
[C] CONNECT PCB
[B] CD PCB
8 PINS 180mm R,BLKx7
AWG30#1571
[D] CASSETTE & POWER AMP. PCB
CONN PIN 9 PINS (3.5+59+3.5)
AWG26#UL2651 FLAT CABLE GREY
4 PINS 310mm BLK,RED
BLU,YEL AWG28#UL1571
3 PINS 470mm RED,BLK,WHT
AWG28#UL1571
CONN PIN GREY 4 PINS
(3.5+93+3.5)
AWG26#UL2651
CONN PIN GREY 10 PINS
(3.5+103+3.5)
AWG26#UL2651
CONN PIN GREY 6 PINS
(5+110+5)
AWG26#UL2651
CONN PIN GREY 3 PINS
(3.5+153+3.5)
AWG26#UL2651
CONN PIN GREY 10 PINS
(3.5+103+3.5)
AWG26#UL2651
250mm GREY COLOR ZERO WIRE
AWG30#2547/3C
[E] OPEN/CLOSE
SENSOR PCB
[F] DISC SENSOR PCB
[G] CONTROL &
DISPLAY PCB
1200mm BLK AWG26#1007
FM ANT.
[H] TUNER PCB
FFC CABLE 16 PINS L=200mm UL2896
250mm BK,R AWG26#1007 & AWG28#2547/2C BLK ZERO WIRE

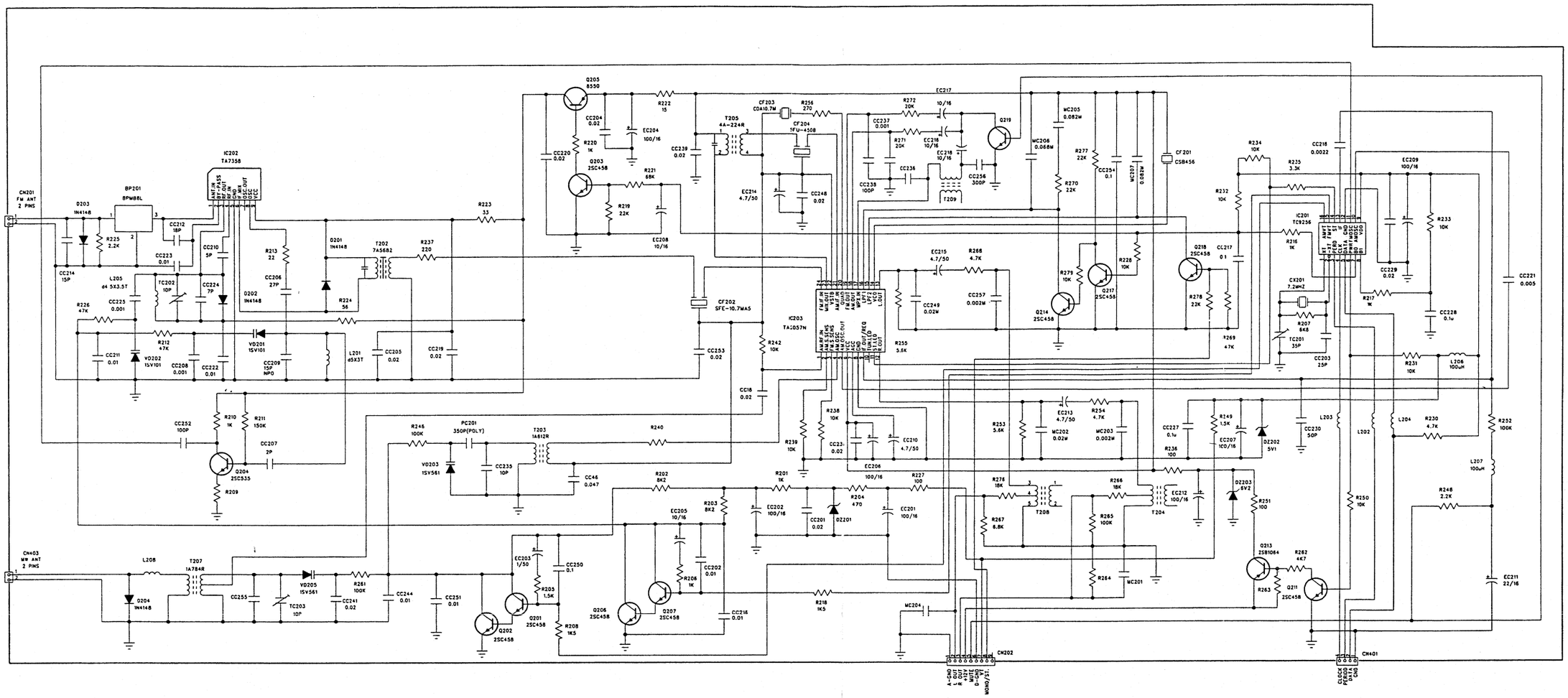
POWER UNIT & AMPLIFIER SECTION (FOR 50W/VDE)


IC503 BU4052BC
A B X,Y CHANNEL
L L X0,Y0 TAPE
H L X1,Y1 TUNER
L H X2,Y2 CD
H H X3,Y3 AUX
NOTE:
1. All resistance values are indicatd in "ohms" (k=1000 ohms. M=1000 kohms)
2. All capacitance values are indicated in "µF" (p=10-6 µF)

REMARKS : In the circuit diagram, somewhere circuitry either part type (value) or connection may need to be modified after further study on the entire product circuit designed.

SCHEMATIC DIAGRAMS

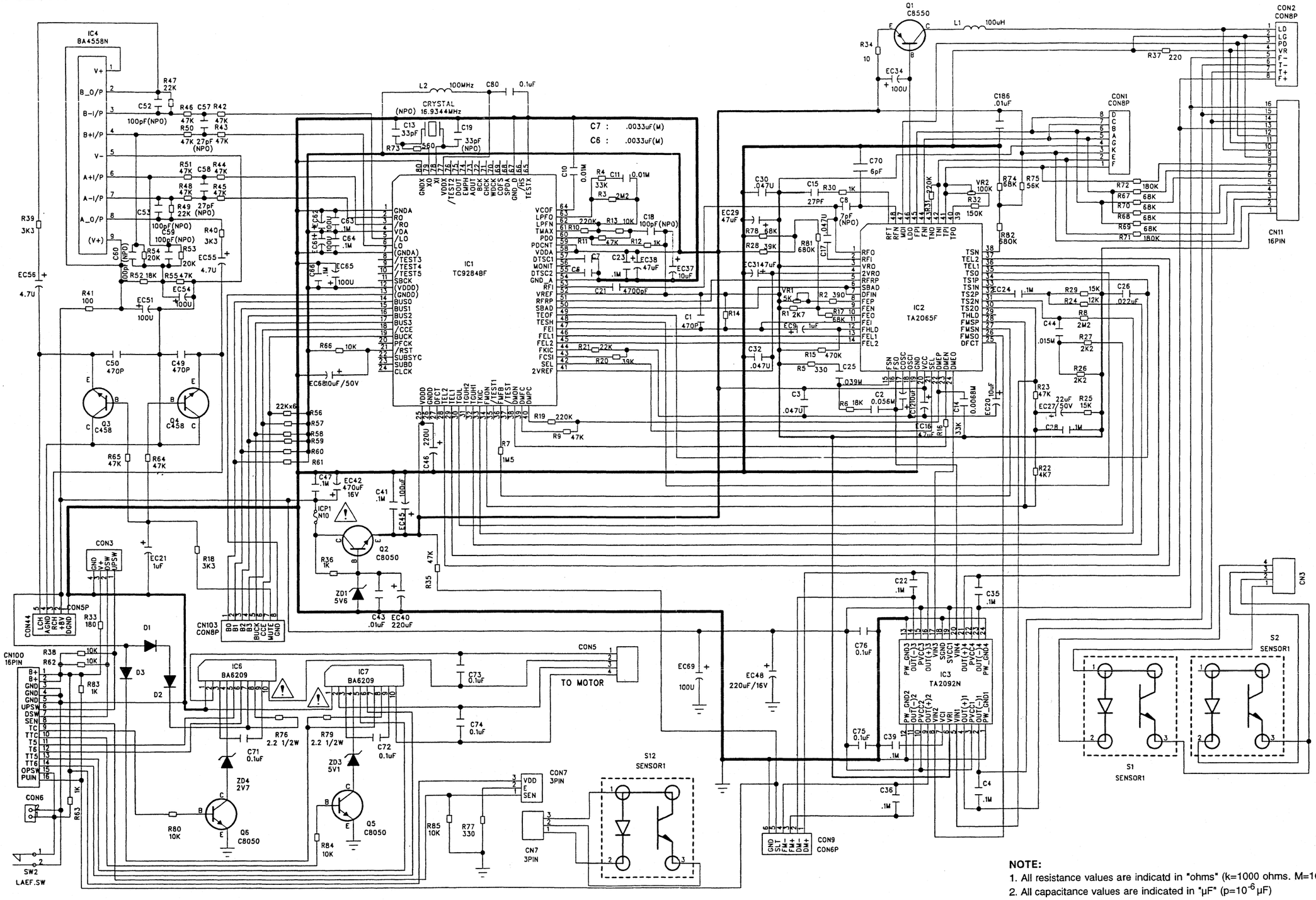
TUNER SECTION



NOTE:

1. All resistance values are indicatd in "ohms" (k=1000 ohms. M=1000 kohms)
2. All capacitance values are indicated in "μF" ($p=10^{-6}$ μF)

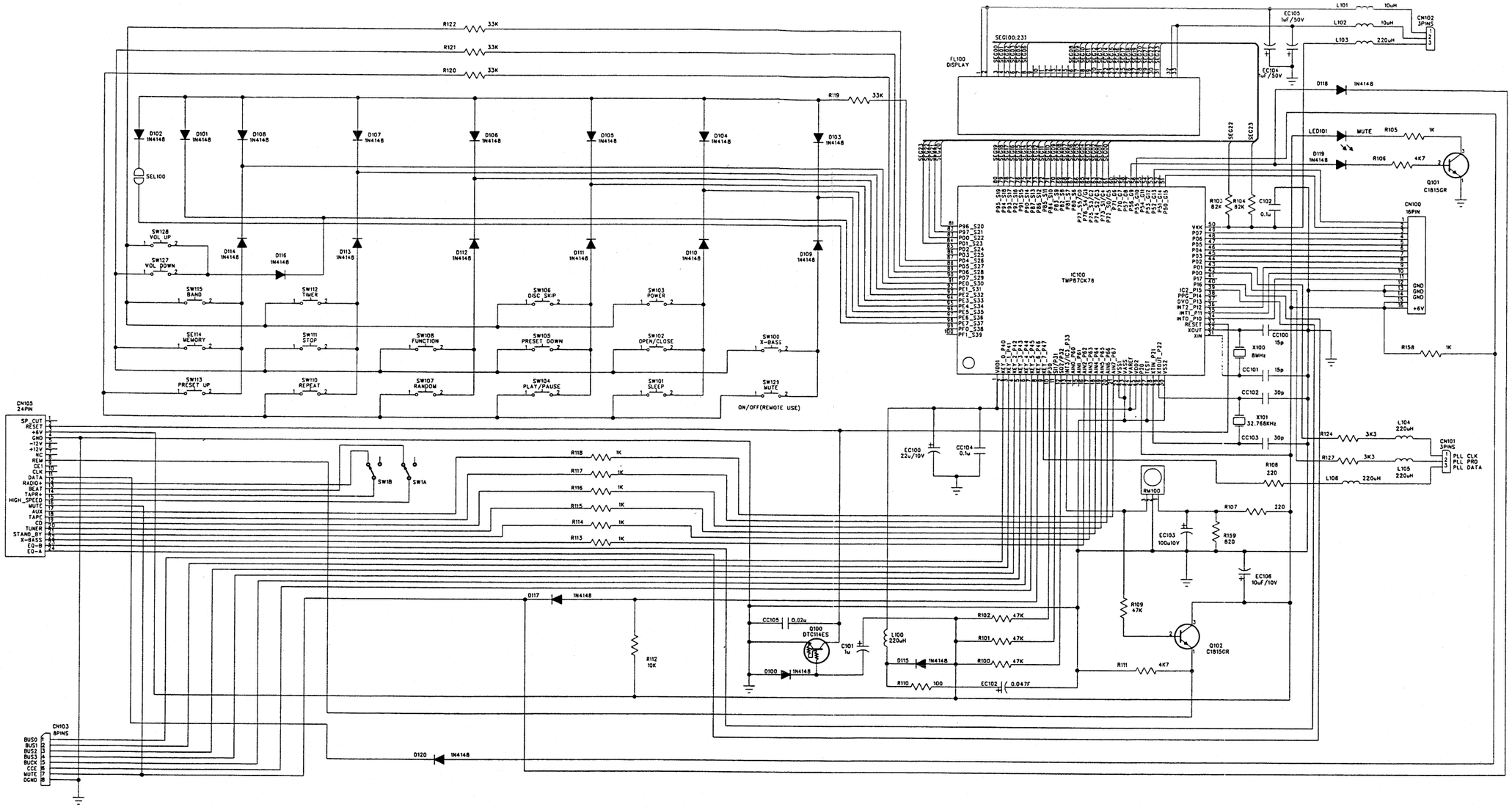
CD SECTION



NOTE:

1. All resistance values are indicatd in "ohms" (k=1000 ohms. M=1000 kohms)
2. All capacitance values are indicated in "μF" (p=10^{-6} μF)

CONTROL SECTION



NOTE:

1. All resistance values are indicatd in "ohms" (k=1000 ohms. M=1000 kohms)
2. All capacitance values are indicated in "μF" (p=10^{-6} μF)